



06/20/97

A/FWC

EG449823405US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 10306US09)

65431 U.S. PTO

08/8794755



06/20/97

In Application of:)
)
 Steven E. Koenck)
)
 Serial No.:)
)
 Filed:)
)
 For: BATTERY CONDITIONING)
 SYSTEM HAVING)
 COMMUNICATION WITH)
 BATTERY PARAMETER)
 MEMORY MEANS IN)
 CONJUNCTION WITH)
 BATTERY CONDITIONING)
)
 Examiner: K. Shin)
)
 Group Art Unit: 2111)

FILE WRAPPER CONTINUATION APPLICATION
UNDER 37 C.F.R. § 1.62

Assistant Commissioner for Patents
Box FWC
Washington, D.C. 20231

Dear Sir:

This is a request for filing a Continuation application under 37 C.F.R. 1.62, of pending prior application Serial No. 08/561,665 filed on November 22, 1995, of Steven E. Koenck for BATTERY CONDITIONING SYSTEM HAVING COMMUNICATION WITH BATTERY PARAMETER MEMORY MEANS IN CONJUNCTION WITH BATTERY CONDITIONING.

The above-identified prior application in which no payment of the issue fee, abandonment of, or termination of proceedings has occurred, is hereby expressly abandoned as of the filing date of this new application. Please use all the contents of the prior application file wrapper, including the drawings and amendments, as the basic papers for the new application.

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E.O.T. TO GP 211

Enclosed is:

1. a Preliminary Amendment; and
2. a Petition for One-Month Extension of Time.

The filing fee due for this application is affected because:

Claims 50-169 cancelled without prejudice in the enclosed Preliminary Amendment should be cancelled before calculating the extra claims fee.

Large Entity Fees

	Claims presented		Extra claims	Rate per extra claim	
Total claims	21	-20 =	1	x \$22	\$ 22.00
Indep. claims	6	- 3 =	3	x \$74	\$222.00
Basic fee					\$710.00
Multiple dependent claim presented (\$230 if any present) ..					<u>\$ 00.00</u>
Total filing fee					<u>\$ 954.00</u>

The following arrangements are being made to pay the government fees due.

- * The Commissioner is hereby authorized to charge the above total filing fee and any other fees which are presently required to Deposit Account No. 13-0017.

The specification should be amended as indicated below:

- * In the first paragraph, line 1, after "this is" please insert:
--a continuation of application Serial No. 08/561,665 filed November 22, 1995, which is--.
- * In the first paragraph, line 2, after "October 12, 1993" please insert:
--, now U.S. Patent No. 5,508,599--.
- * In the first paragraph, line 3, after "application", please insert:
--Serial No. 08/134,881--.

The ownership of the application is as follows:

- * The prior application is assigned to Norand Corporation.

The undersigned attorney is authorized to represent the applicants and receive correspondence because:

- * The power of attorney filed in the prior application and currently in force authorizes the following attorneys, including the undersigned, to act on behalf of the inventors:

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Gregory J. Vogler	Reg. No. 31,313
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(Of McAndrews, Held, & Malloy, Ltd., Northwestern Atrium Center, Suite 3400, 500 West Madison Street, Chicago, Illinois 60661; Telephone (312) 707-8889.)

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(Of Cedar Rapids, Iowa.)


- * Address all future written communications and telephone calls to

Christopher C. Winslade
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It is understood that secrecy under 35 U.S.C. 122 is hereby waived to the extent that if information is available to any one of the applications in the file wrapper of a 37 C.F.R. 1.62 application, be it either this application or a prior application in the same

file wrapper, the Patent and Trademark Office may provide similar information or access to all the other applications in the same file wrapper.

Dated: June 20, 1997


Christopher C. Winslade
Reg. No. 36,308

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PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Box FWC
Washington, D.C. 20231

Dear Sir:

This Preliminary Amendment is being filed in a Rule 1.62 continuation application of Serial No. 08/561,665. Applicant respectfully requests entry of the following amendments.

In the claims:

Please cancel claims 49-169, without prejudice.

Please add the following new claims:

170. A portable battery powered system comprising:

a portable battery powered utilization device for operating from battery power during portable operation thereof;

battery means operatively coupled with said utilization device for supplying operating power thereto;

battery monitoring means operatively coupled with said battery means for monitoring battery parameters;

said utilization device together with said battery means and said battery monitoring means having a size and weight to be carried by an individual person;

said battery monitoring means comprising battery parameter sensing means for sensing battery parameters and comprising memory means operatively coupled with said battery parameter sensing means and operative for storing data based on said battery parameters, representative of available battery capacity;

means comprising said memory means for indicating remaining battery capacity;

said utilization device comprising data processing means operatively coupled with said battery means for operation from battery power; and

said battery monitoring means having data communication means operatively coupled with said data processing means of said utilization device, and providing for the transmission of data messages to said data processing means.

171. A portable battery powered system comprising:

a portable battery powered utilization device;

a battery pack operatively coupled to the utilization device for supplying operating power thereto;

said utilization device together with said battery pack having a size and weight to be carried by an individual person;

said battery pack having battery circuitry for generating data based on battery parameters;

said utilization device having processor circuitry operatively coupled with said battery pack for operation from battery power; and

a communication link between the battery circuitry and the processor circuitry providing for the transmission of data based on battery parameters to the processor circuitry.

172. The portable battery powered system of claim 171 wherein the battery circuitry includes a processor and an electronic memory device.

173. A portable utilization device capable of battery powered operation, said utilization device comprising:

a rechargeable battery pack, said rechargeable battery pack having data communication circuitry;

a computer terminal device adapted to receive said rechargeable battery pack;

said computer terminal device together with said rechargeable battery pack having a size and weight to be carried by an individual person;

said computer terminal device having terminal processor circuitry for coupling with said rechargeable battery pack so as to enable operation thereof from battery power; and

said computer terminal device having a two-way communication link with said rechargeable battery pack providing for the transmission of messages between the battery pack and the terminal processor circuitry.

174. A device as set forth in Claim 173, said device with said data communication link providing for the transmission of data and command messages.

175. A device as set forth in Claim 173, said battery pack and said device having a coupling arrangement such that the communication link therebetween is automatically established when the battery pack is inserted into received relationship to said computer terminal device.

176. A portable utilization device according to claim 173, wherein said battery pack is operative to transmit a message to said terminal processor circuitry via said communication link advising that a charging of said battery pack is in progress.

177. A portable utilization device according to claim 173, wherein a battery discharge circuit is provided for enabling relative accurate measurement of battery capacity.

178. A portable utilization device according to claim 173, wherein said terminal processor circuitry is operative to send a message via said communication link to advise that a battery capacity measurement is to be initiated.

179. A portable utilization device according to claim 173, wherein said battery pack sends an interrupt to said terminal processor circuitry to advise of a selected condition of said battery pack.

180. A portable utilization device according to claim 179, wherein said battery pack measures battery capacity by effecting a discharge cycle, and maintains a record of battery capacity during subsequent battery operation of said computer terminal device so as to send an interrupt to said terminal processor circuitry in response to a selected condition related to remaining battery capacity.

181. A portable battery powered system, the system comprising:
a battery powered utilization device;
a battery pack having a positive voltage terminal, a negative voltage terminal and a data interface terminal;
said battery powered utilization device adapted to receive said battery pack such that said battery pack provides operational power to said utilization device;

an electronic memory device being disposed within said battery pack which is powered by said battery pack for storing battery pack data;

said data interface terminal operably connected to said electronic memory device for communicating said battery pack data between said electronic memory device and said utilization device; and

a controller for writing said data to and reading said battery pack data from said electronic memory device.

182. The portable battery powered system of claim 181 wherein said controller is operably disposed within said battery pack.

183. The portable battery powered system of claim 181 wherein said controller is operably disposed within said utilization device.

184. A portable utilization device capable of battery powered operation, said utilization device comprising:

a battery;

a computer housing adapted to receive said battery;

said computer housing together with said battery having a size and weight to be carried by an individual person;

said computer housing having computer processing circuitry for receiving power from said battery so as to enable portable operation of the utilization device;

a battery system coupled with said battery for monitoring battery parameters; and

a two-way communication link communicatively coupling said battery system to said processing circuitry thereby enabling said computer processing circuitry to receive information concerning said battery from said battery system.

185. A portable utilization device according to claim 184, with said two-way communication link providing for the transmission of command messages from said computer processing circuitry to the battery system.

186. A portable utilization device according to claim 185, with said battery system being responsive to a command message from said computer processing circuitry to transmit to the computer processing circuitry information concerning the status of the battery.

187. A portable utilization device according to claim 185, with said battery system being responsive to a command message from the computer processing circuitry to set a battery parameter at a specified value.

188. A portable utilization device according to claim 185, with said battery system being responsive to a command message to

transmit to said computer processing circuitry requested information relating to battery parameters.

189. A portable utilization device according to claim 184, with said battery system being operative to notify said computer processing circuitry when the battery is removed from said computer housing.

REMARKS

In the parent application, Serial No. 08/561,665, the Examiner rejected claims 49-169 for undue multiplicity in a final Office Action dated March 19, 1997. In the present Rule 1.62 application, Applicant has canceled claims 49-169 and now submits new claims 170-189, twenty claims in total, as the Examiner has requested.

Based on the Examiner's statements, Applicant believes that claims 170-189 are in condition for allowance. A Notice of Allowability is courteously solicited.

Respectfully submitted,

McANDREWS, HELD & MALLOY, LTD.

By: 

Christopher C. Winslade
Reg. No. 36,308

Dated: June 20, 1997